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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/799,608	03/15/2004	Norikazu Ota	119100	8411

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OLIFF & BERRIDGE, PLC
P.O. BOX 19928
ALEXANDRIA, VA 22320

EXAMINER

KAYRISH, MATTHEW

ART UNIT	PAPER NUMBER
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2627

MAIL DATE	DELIVERY MODE
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10/03/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/799,608

Applicant(s)

OTA ET AL.

Examiner

Matthew G. Kayrish

Art Unit

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-- The MAILING-DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 July 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3,4,6-8 and 10-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3,4,6-8 and 10-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application
- ☐ Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1, 4 and 8 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 4, 6, 8, 10 and 12-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Sluzewski et al (US Patent Number 6985332).

4. Regarding claims 1, 4 and 8, Sluzewski discloses:

A hard disk drive (figure 1, item 100) comprising:

A head gimbal assembly (figure 1, item 122) including an arm member (figure 1, item 108) mounted with a head slider (figure 3, item 140); and

A recording medium (figure 1, item 102);

A head slider (figure 3, item 140) comprising:

A support (figure 1, item 124); and

A magnetic head part (figure 3, item 142), formed on the support (figure 2), for carrying out at least one of recording and reproducing of information (column 6, lines 3-6);

The magnetic head part comprising:

A device to be energized (figure 3, item 128), including first and second poles (column 7, lines 38-52) for supplying a current therebetween; and

An energizing electrode pad (figure 5, item 148a) disposed on a first surface of the head slider on a side opposite from the support (figure 3, support extends in opposite direction);

The first pole of the device to be energized, being electrically connected to the energizing electrode pad (column 7, lines 38-52);

The second pole (figure 5, item 148b) of the device to be energized, being conductible by way of a second surface of the head slider (figure 5, via item 150b), the second surface being different from the first surface (figure 5, items 148 & 150 are on different surfaces) and being substantially parallel (figure 3) and bonded to a surface of an arm member (column 7, lines 6-22);

Wherein the first and second poles form a circuit with the device to be energized so as to energize the device to be energized (column 7, lines 38-67) when current flows through the device via the first and second poles (column 7, lines 6-37).

5. Regarding claims 6 and 10, Sluzewski discloses the features of base claims 4 and 8, as stated in the 102 rejection above, and further discloses:

Wherein the second surface is in contact with the arm member (columns 6 & 7, lines 64-67 & 1-5).

6. Regarding claims 12-14, Sluzewski discloses the features of base claims 1, 4 and 8, as stated in the 102 rejection above, and further discloses:

Wherein the second surface is substantially perpendicular to the first surface (figure 3).

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 3, 7 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sluzewski et al, in view of Kamijima (US PG-Pub 2003/0099054).

9. Regarding claims 3, 7 and 11, Sluzewski discloses the features of base claims 1, 4 and 8, as stated in the 102 rejection above, and further discloses:

Wherein the magnetic head part comprises a magnetoresistive device (figure 3, item 128) for reproducing (column 6, lines 3-6), an inductive electromagnetic transducer (figure 3, item 128) for recording (column 6, lines 3-6);

Wherein the device to be energized is one of devices of the magnetoresistive device, inductive electromagnetic transducer (column 7, lines 6-11); and

Wherein the devices other than the device to be energized are connected to respective pairs of electrode pads disposed on the first surface (figure 5, 4 electrodes for 2 separate devices).

Sluzewski fails to specifically disclose:

A heater element for generating heat upon energization.

Kamijima discloses:

A heater element (figure 4, item 45) for generating heat upon energization (page 5, paragraph 84).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the head of Sluzewski with a heater element, as taught by Kamijima, because a heater element will cause the magnetic head to jut out towards the medium, bringing it closer, thereby providing for a better signal, as stated in paragraph 11.

Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew G. Kayrish whose telephone number is 571-272-4220. The examiner can normally be reached on 8am - 5pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrea Wellington can be reached on 571-272-4483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>.

Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the

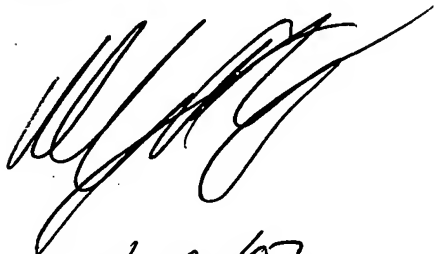
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automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Matthew G. Kayrish

9/28/2007

MGK



9/28/07

**Brian E. Miller /Brian E. Miller/
Primary Patent Examiner AU2627**